FIG. 1

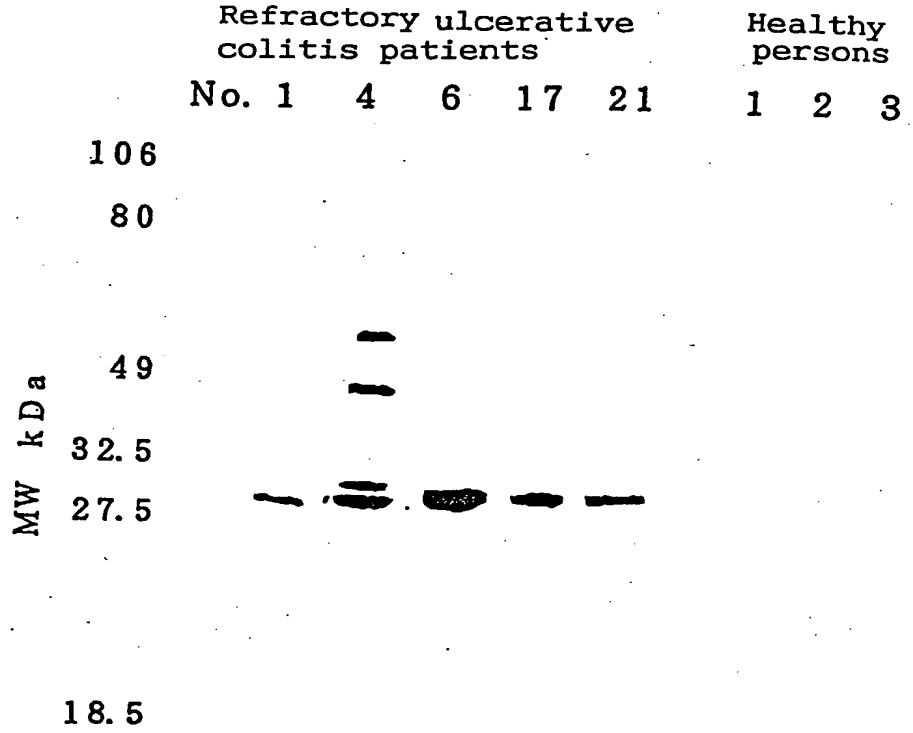

Refractory ulcerative colitis patients
Healthy persons
No. 1 4 6 17 21
1 2 3
106
80
49
32.5
27.5
18.5
MW kDa

FIG. 2

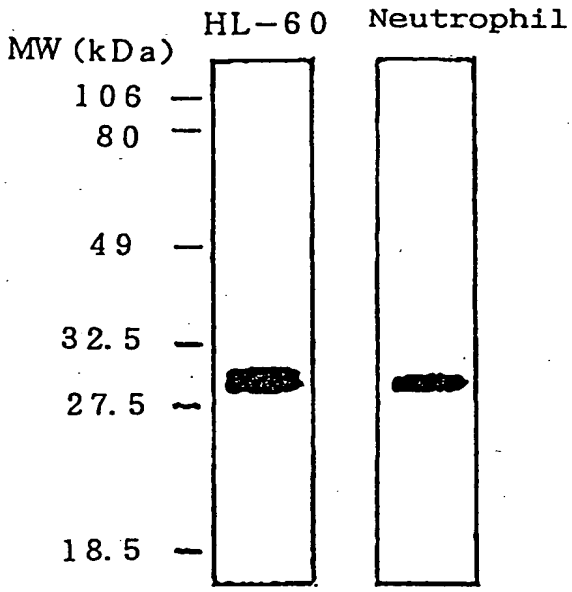
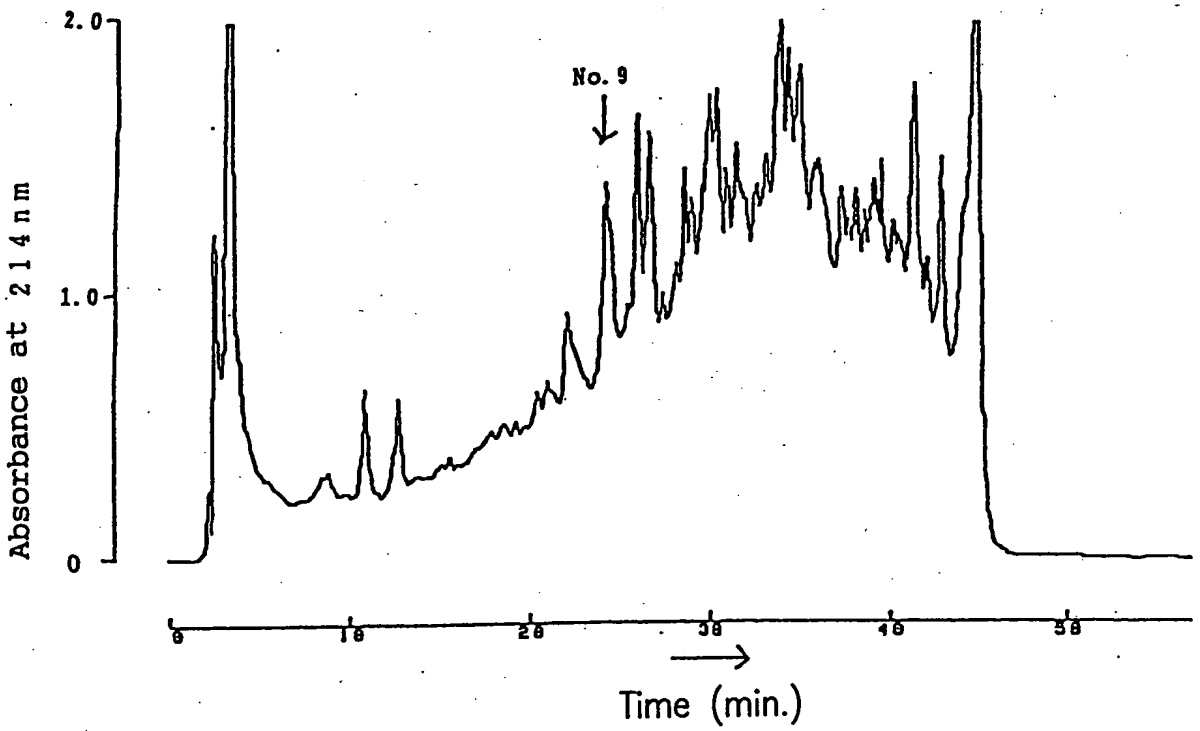


FIG.3



Elution conditions Column : YMC-ProteinRP、250X4.6mmID, 5μm

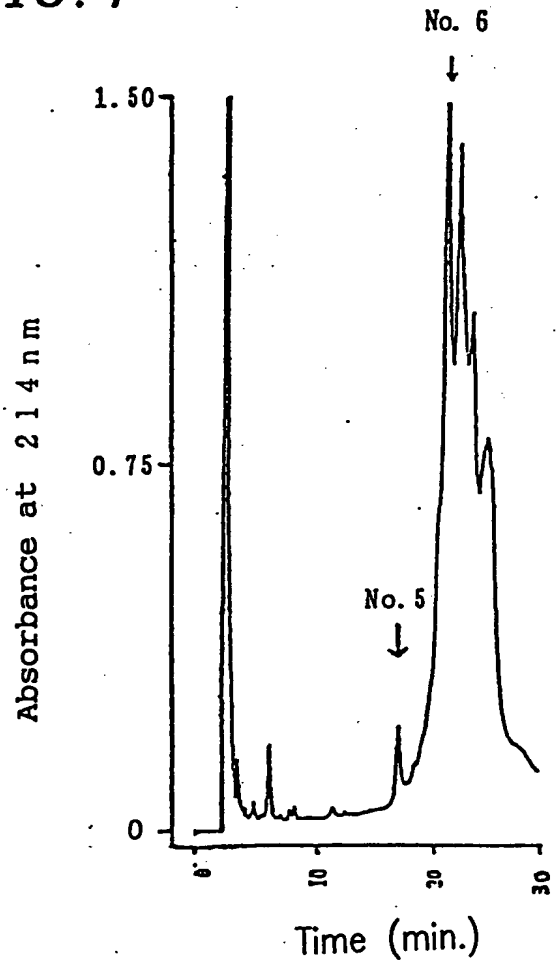
Flow rate : 1.5ml/min.

Elution : A :0.1%TFA、B : 80%CH_3CN/0.1%TFA

20%B→60%B/40min

Detection : 214nm

FIG. 4



Elution conditions Column : YMC-ProteinRP、250X4.6mmID, 5μm

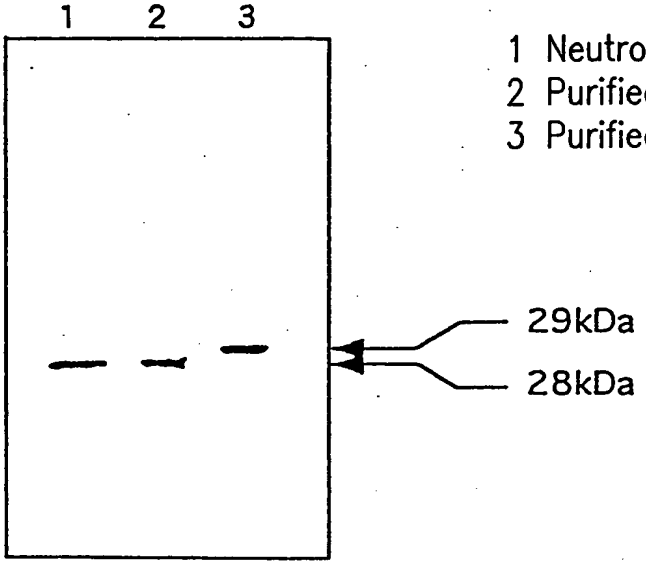
Flow rate : 1.5ml/min.

Elution : A :0.1%TFA、 B : 80%CH_3CN/0.1%TFA

30%B→45%B /30min

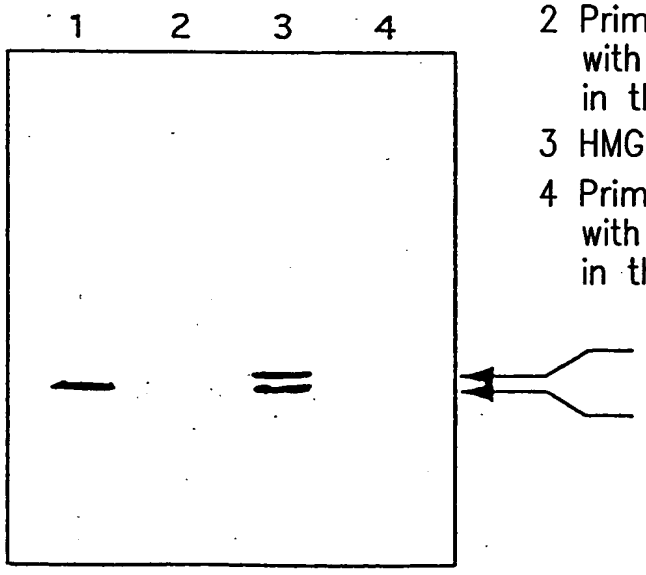
Detection : 214nm

FIG. 5



1 Neutrophil lysate
2 Purified 28kDa antigen
3 Purified 29kDa antigen

FIG. 6



1 Neutrophil lysate
2 Primary antibody absorbed with bovine HMG-1 and HMG-2 in the experiment of lane 1.
3 HMG-1 and HMG-2 purified from HL-60
4 Primary antibody absorbed with bovine HMG-1 and HMG-2 in the experiment of lane 3.

FIG. 7

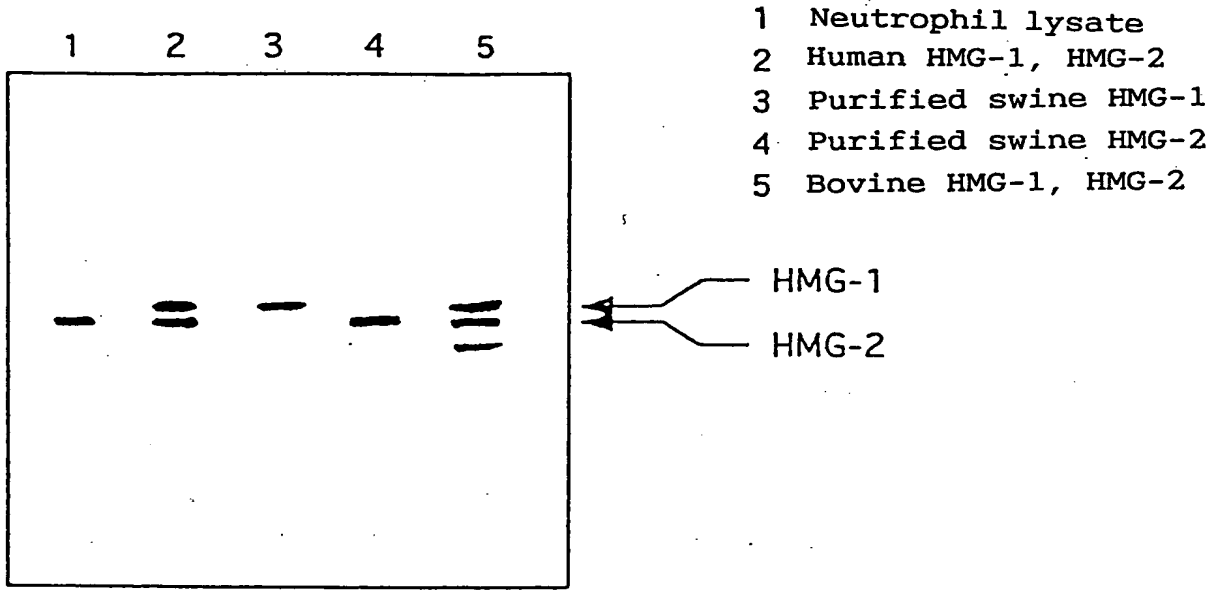

1 2 3 4 5
1 Neutrophil lysate
2 Human HMG-1, HMG-2
3 Purified swine HMG-1
4 Purified swine HMG-2
5 Bovine HMG-1, HMG-2
HMG-1
HMG-2

FIG. 8

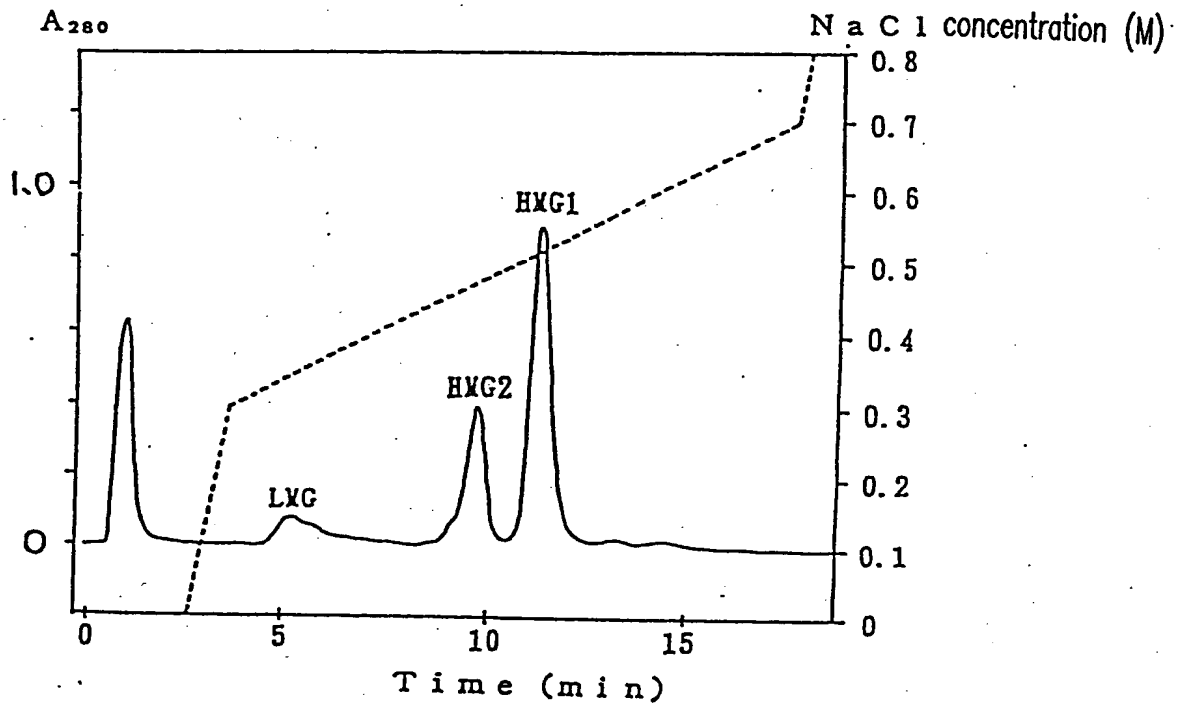

A280
NaCl concentration (M)
1.0
0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
HXG1
HXG2
LXG
0
5
10
15
Time (min)

FIG. 9

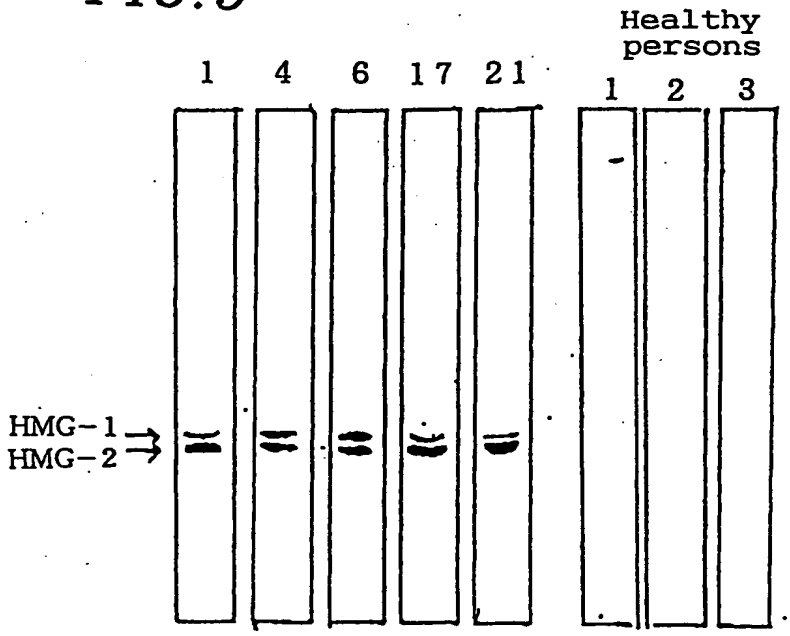


FIG. 10

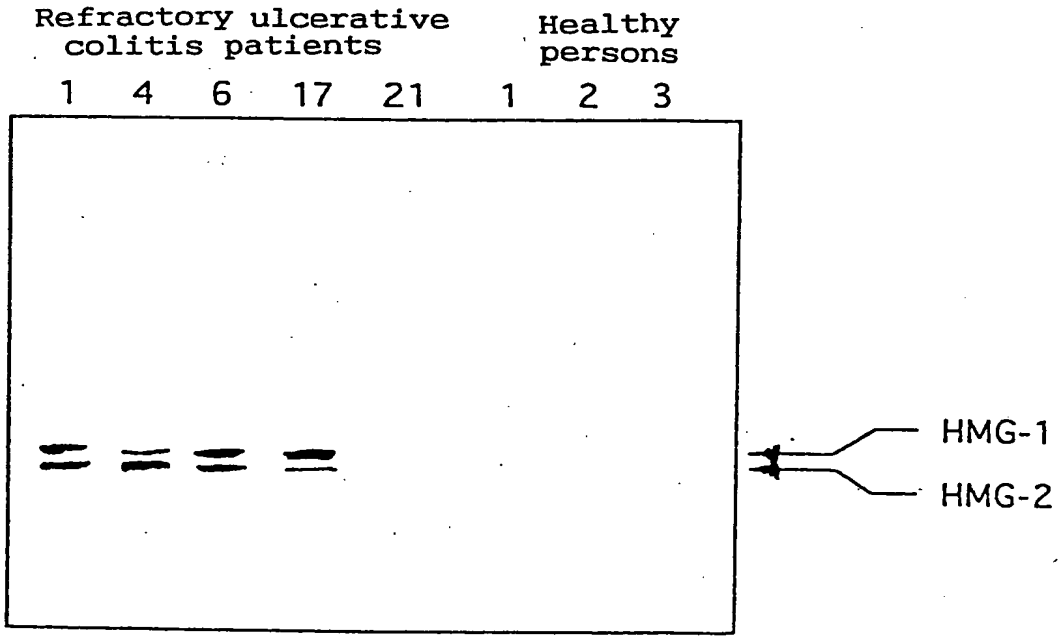

Refractory ulcerative colitis patients
Healthy persons
1 4 6 17 21 1 2 3
HMG-1
HMG-2

FIG. 11

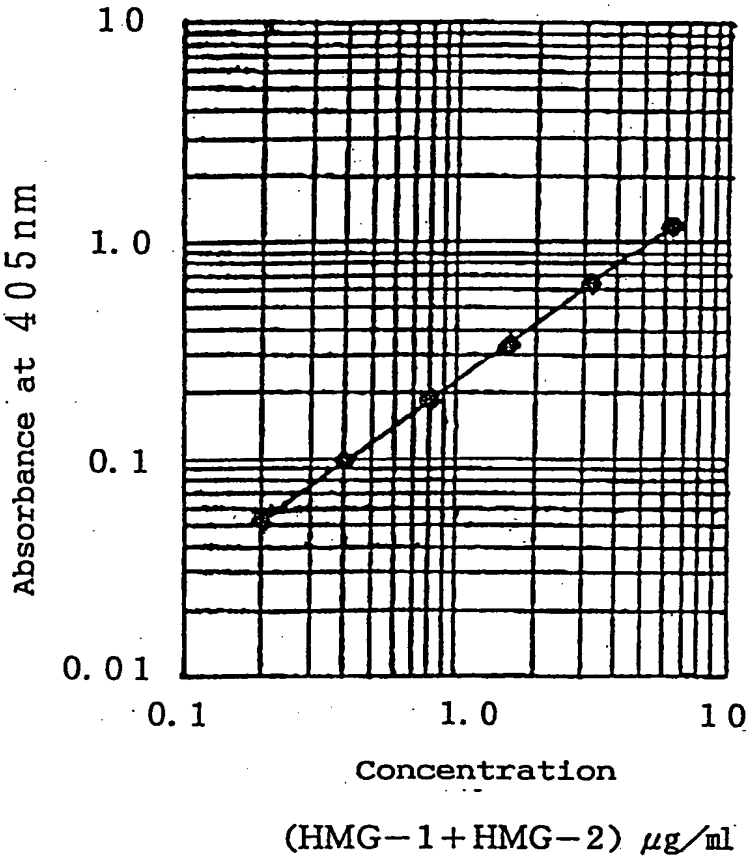

10
1.0
0.1
0.01
Absorbance at 405nm
0.1
1.0
10
Concentration
(HMG−1+HMG−2) μg/ml

FIG. 12-1

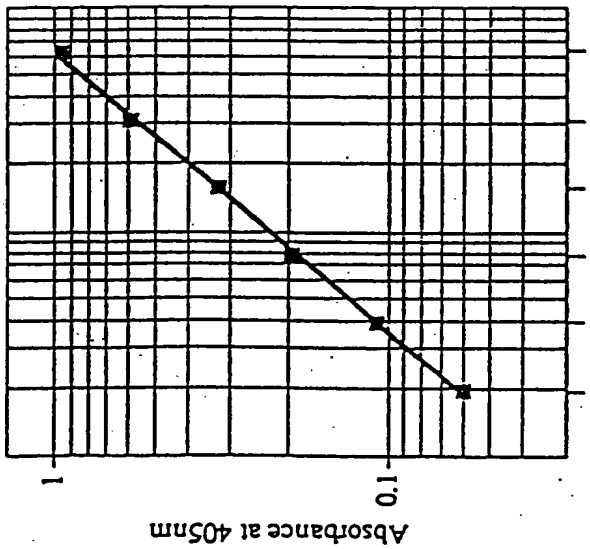


FIG. 12-2

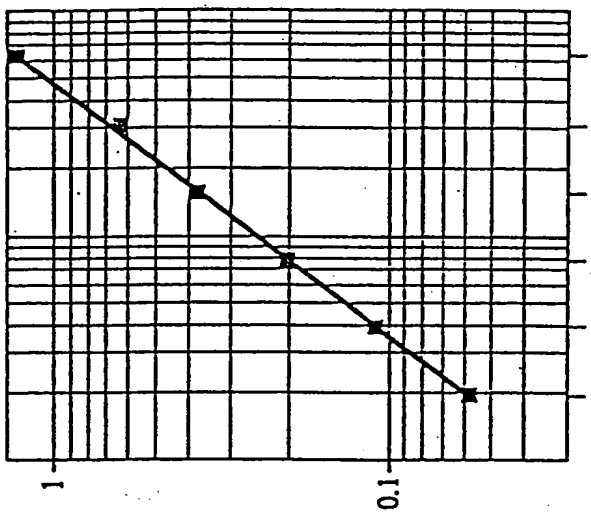


FIG. 12-3

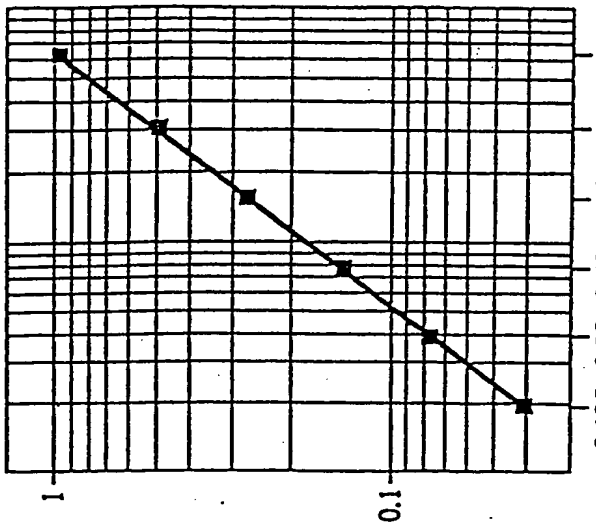


FIG. 13

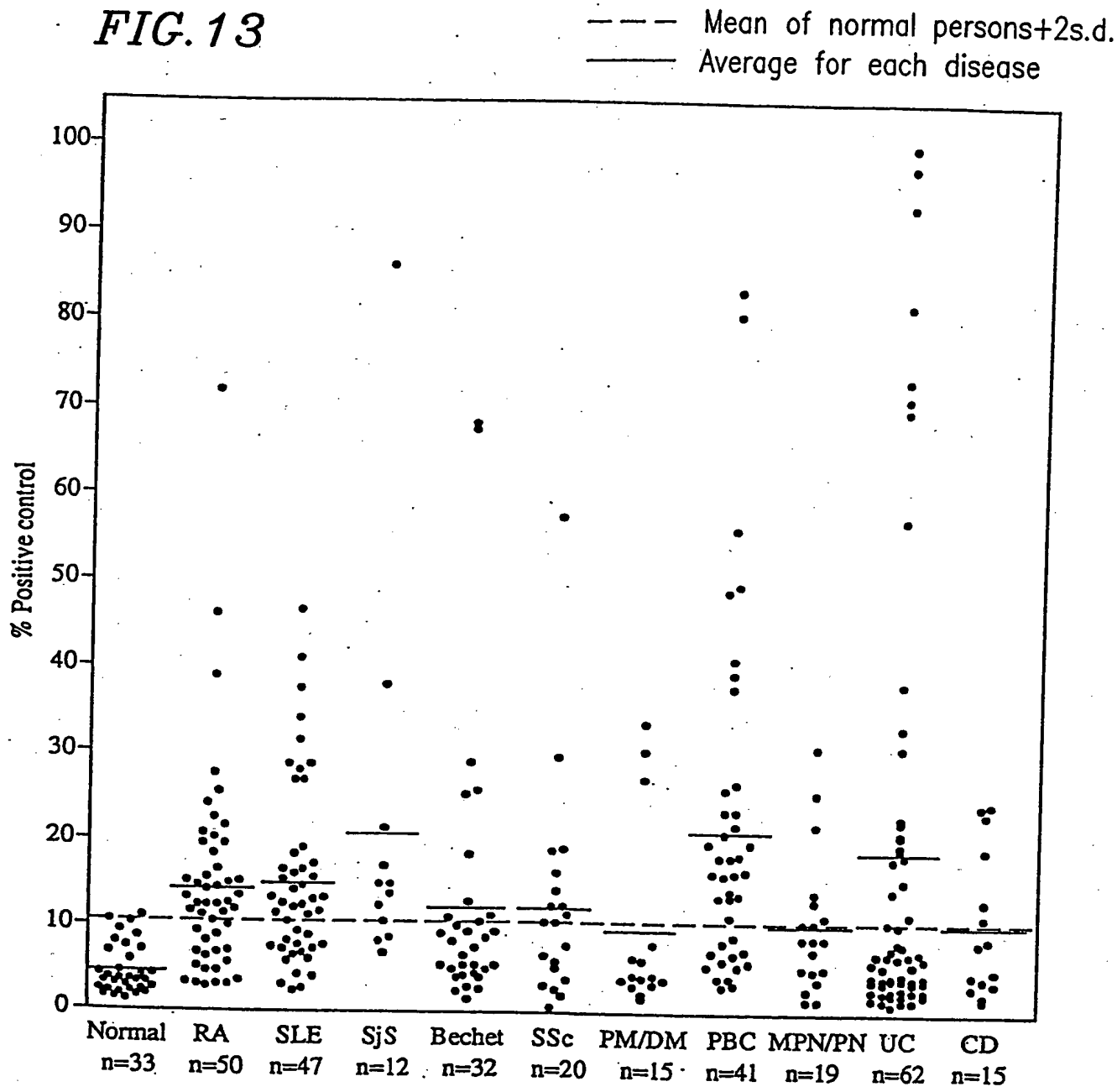

Mean of normal persons+2s.d.
Average for each disease
% Positive control
100
90
80
70
60
50
40
30
20
10
0
Normal n=33
RA n=50
SLE n=47
SjS n=12
Bechet n=32
SSc n=20
PM/DM n=15
PBC n=41
MPN/PN n=19
UC n=62
CD n=15

FIG. 14

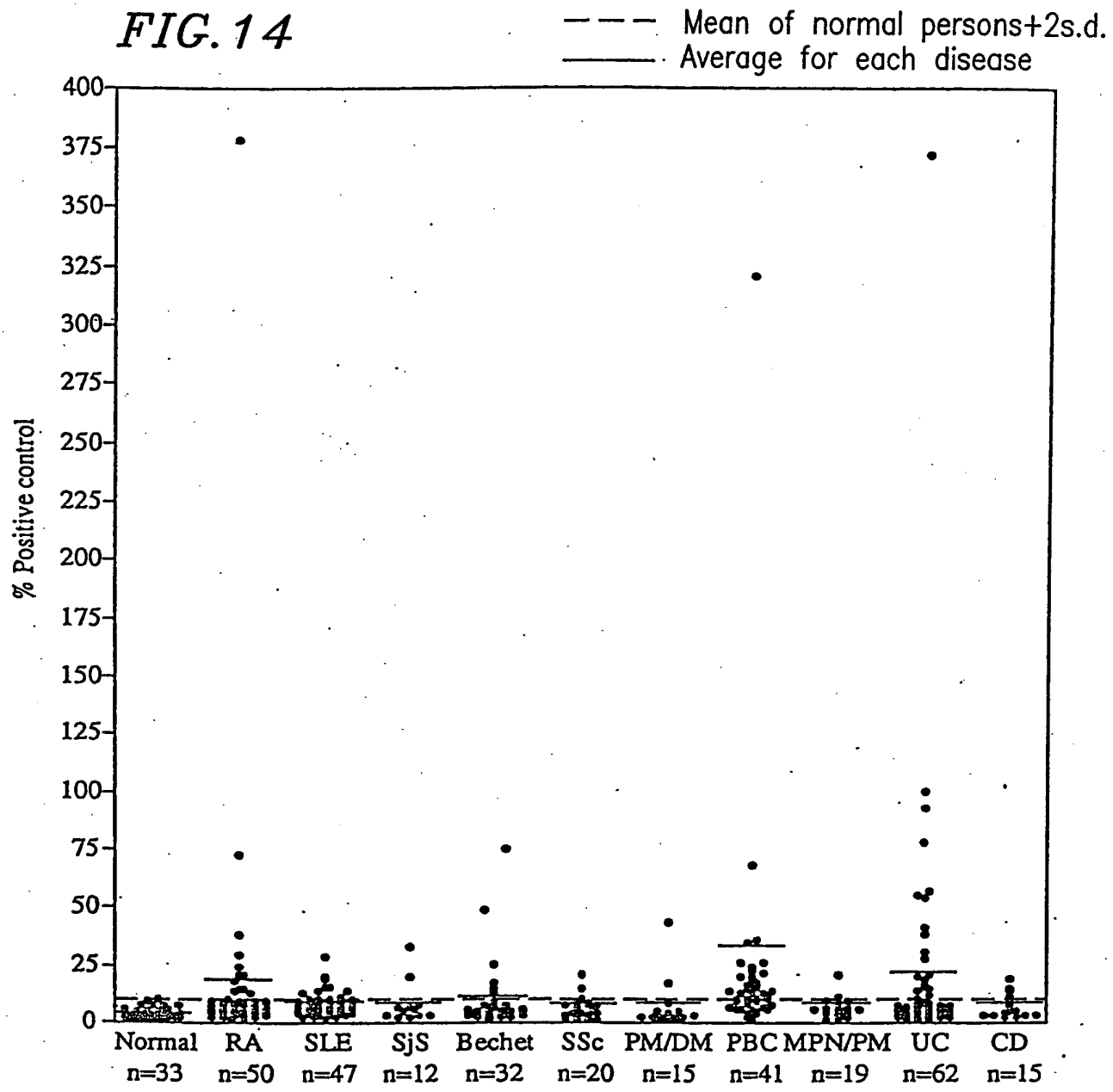
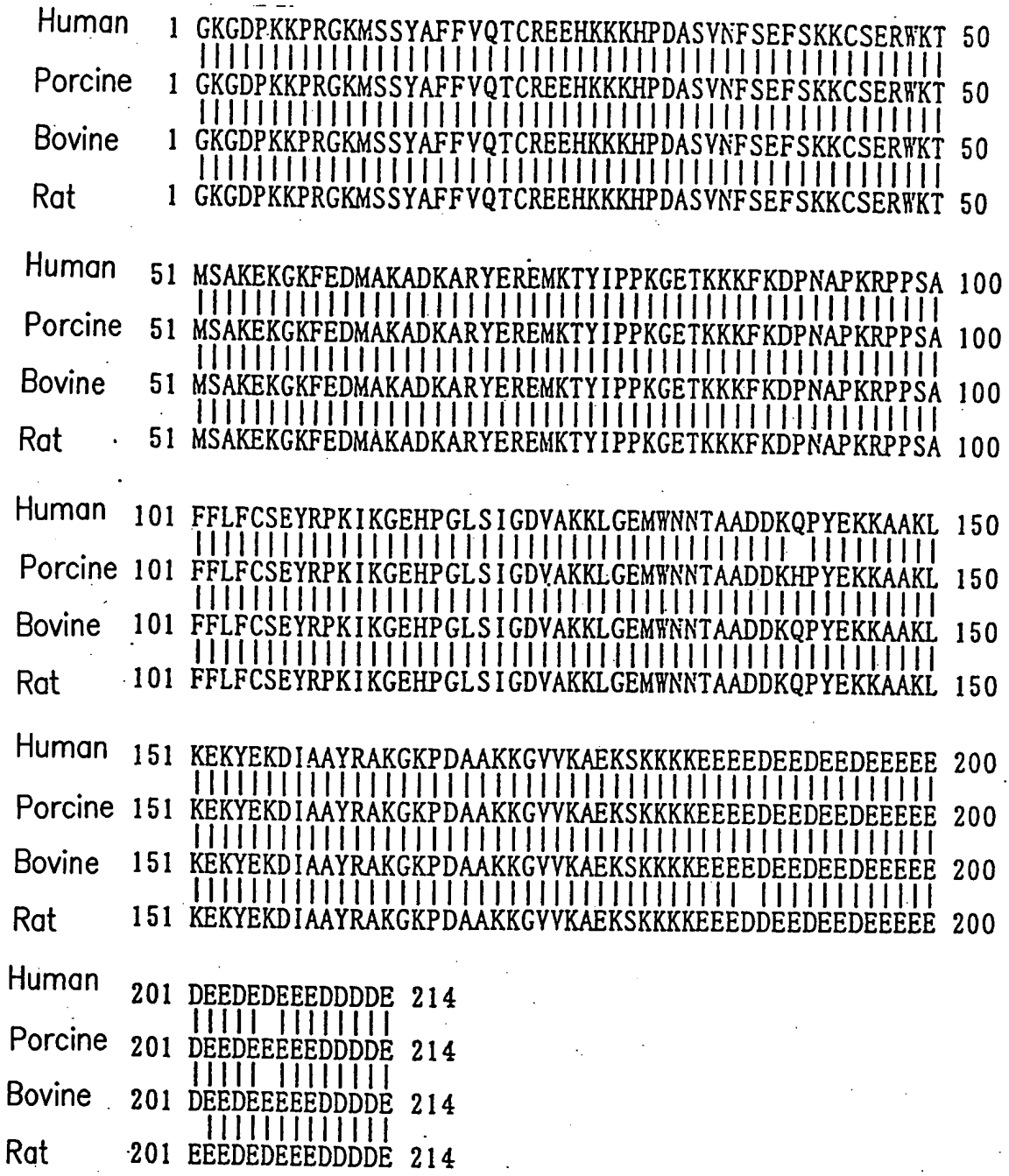
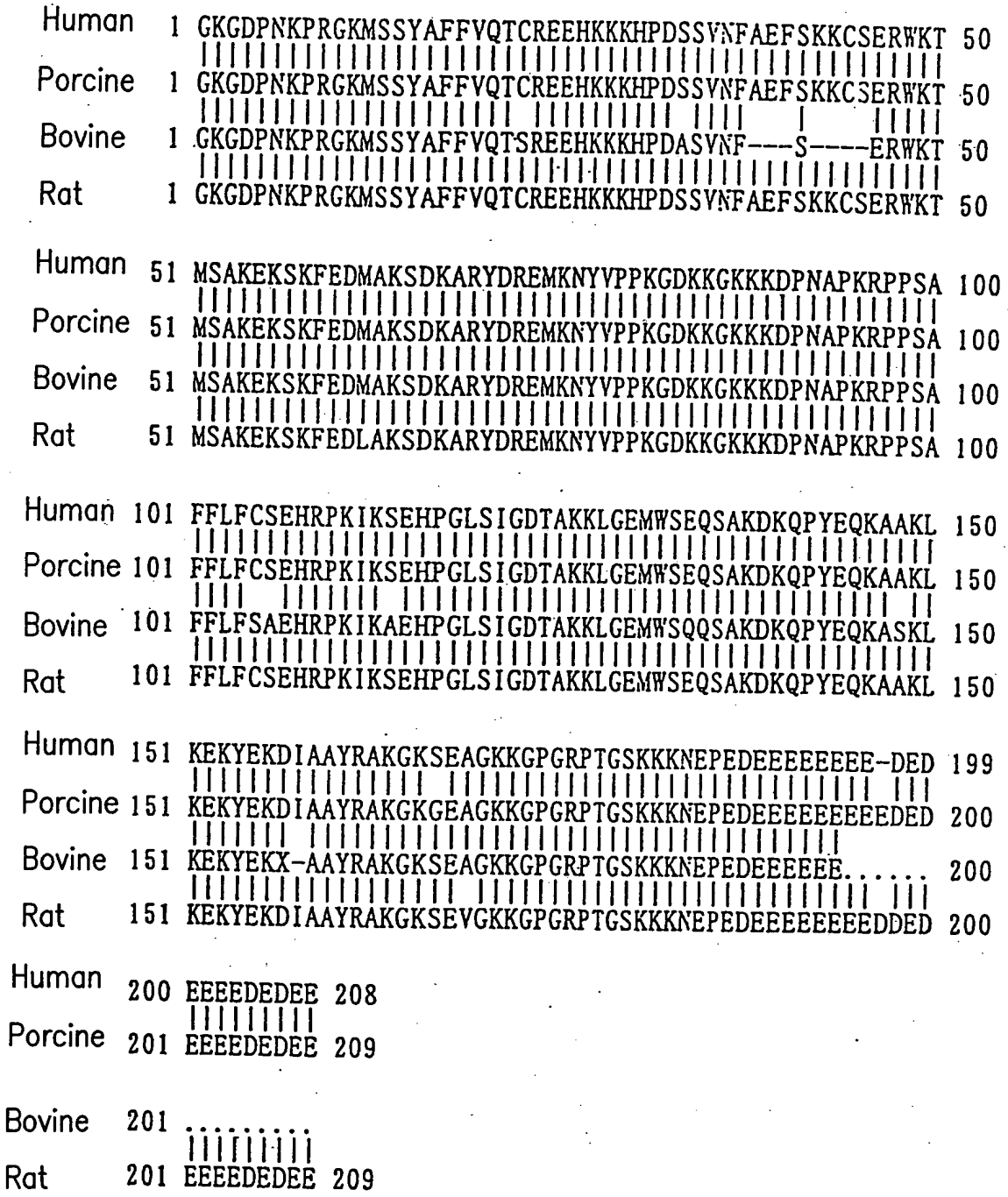

Mean of normal persons+2s.d.
Average for each disease
% Positive control
400
375
350
325
300
275
250
225
200
175
150
125
100
75
50
25
0
Normal n=33
RA n=50
SLE n=47
SjS n=12
Bechet n=32
SSc n=20
PM/DM n=15
PBC n=41
MPN/PM n=19
UC n=62
CD n=15

FIG. 15



Comparison among human, porcine, bovine and rat HMG-1
"I" indicates the same amino acid with that of human HMG-1.

FIG. 16



Comparison among human, porcine, bovine and rat HMG-2
"|" indicates the same amino acid with that of human HMG-2.